



OSUTeach Degree/Major: BS/Chemistry Option: Secondary Teaching Academic Year: 2017-18

### Proposed Four-Year Degree Plan (120 Total Hours)

The following is an example 8-semester plan. This is used to illustrate the course sequencing and the expectations for course loading. Students may use this as a guide as they plan their undergraduate education, but should adjust it to fit their personal goals. Students are responsible for completing requirements in the official degree sheet for each major. It is mandatory for a student to meet with an academic advisor prior to course enrollment each semester.

- Assumption: 1) Entering students have 2 years of a foreign language from high school with no grade below B.  
 2) Entering students meet placement requirements for MATH 2144 (Calculus I).

**Current Course Rotation:** (F) = Fall only (S) = Spring only

Students must refer to the Registrar's Office website for the availability of course offerings as well as visit with their academic advisor to find out about any special offerings.

Year One					
Fall Semester			Spring Semester		
A&S	1111	Freshman Orientation	ENGL	1213	Freshman Composition II
ENGL	1113	Freshman Composition I	POLS	1113	Intro to American Government
HIST	1103	Survey of American History	MATH	2153	Calculus II
MATH	2144	Calculus I	CHEM	1515	General Chemistry II
CHEM	1314	General Chemistry I	SMED	2011	Inquiry-Based Lesson Design
SMED	1011	Inquiry Approach to Teaching			
Total: 16 credit hours			Total: 15 credit hours		
10 hours field experience. Get involved with student organizations to further your experiences.			10 hours field experience. Register at Career Services. It is free, and has countless opportunities.		

Year Two					
Fall Semester			Spring Semester		
CHEM	3053	Organic Chemistry I	CHEM	3153	Organic Chemistry II
CHEM	2113	Principles of Analytical Chemistry (F)	CHEM	3112	Organic Chemistry Lab (S)
CHEM	2122	Quantitative Analysis Lab (F)	STAT	2013 or 4013	Elementary Statistics Statistical Methods I
BIOL	1114	Introductory Biology	PHYS	1114 or 2014	General Physics I (Algebra-based) General Physics I (Calculus-based)
	3 hours	Social Science with International	SMED	3013	Knowing, Learning in Math & Science
Total: 15 credit hours			Total: 15 credit hours		
			Register for & pass OGET.		

Year Three					
Fall Semester			Spring Semester		
CHEM	3413	Physical Chemistry Applications	SMED	4613	Teaching Science Through Inquiry (S)
CHEM	4320 (3)	Identif. of Organic Compounds (F)	CHEM	3353	Descriptive Inorganic Chemistry (S)
PHYS	1214 or 2114	General Physics II (Algebra-based) General Physics II (Calculus-based)	BIOC or CHEM	3653 or 4990 (2)	Survey of Biochemistry or Special Topics in Chemistry
SMED	4013	Classroom Interactions	SPED	3202	Educating Exceptional Learners
PHIL	3933	Creation & Evolution (F) ( <i>pre-session</i> )		3 hours	Arts & Humanities
	3 hours	Elective		3 hours	Elective
Total: 18 credit hours			Total: 16-17 credit hours		
36 hours field experience. Pass Portfolio Submission One. Apply for Professional Education.			Register for & pass OSAT.		

Between Years Three and Four, contact your advisor about an official graduation check.

Year Four					
Fall Semester			Spring Semester		
SMED	4713	Teaching & Learning in Secondary Schools	CIED	4720(6)	Internship in Secondary Education
SMED	4023	Problem-Based Learning	SMED	4723	Senior Seminar in Secondary Science/Math Teaching
PHIL	3743	Patterns in Science	File a Diploma Application. Register for & pass OPTE. Pass Portfolio Submission Three.		
	3 hours	Elective			
	3 hours	Elective			
Total: 15 credit hours			Total: 9 credit hours		
36 hours field experience. Pass Portfolio Submission Two.			Celebrate your accomplishment at May Graduation with your fellow Cowboys!!		

### **OTHER REQUIREMENTS:**

**The College of Arts & Sciences requires 6 hours Upper-Division General Education outside the major department.**

**Total hours must include at least 40 hours in courses numbered 3000 or above.**

**Hours in one department in excess of 54 will be added to the minimum total of 120 required for graduation.**

**At least 60 hours must be completed at a four-year institution. At least 30 hours must be completed at OSU.**

**15 of the final 30 hours completed, or 50% of the upper-division hours in the major field must be completed at OSU.**

**Limit of: one-half of major course requirements as transfer work; one-fourth of hours earned by correspondence; 8 transfer correspondence hours.**

#### **1. GENERAL EDUCATION REQUIREMENTS**

No more than two courses (or eight hours) from the major department may be used to meet General Education and College and Departmental Requirements. The General Education required English Composition, required U.S. History, required American Government, one required MATH or STAT course, and required foreign language for B.A. degrees do not count against the two-course maximum.

#### **2. A&S COLLEGE/DEPARTMENTAL REQUIREMENTS**

a. Arts and Humanities are defined as any course carrying an (H) designation or courses from AMST, ART, DANC, ENGL (except 3323) HIST, MUSI, PHIL (except 1313, 3003 and 4003), REL, TH, and foreign languages.

b. Natural and Mathematical Sciences are defined as any course from the following prefixes: ASTR, BIOC, BIOL, BOT, CHEM, CS (except 4883), GEOL, MATH, MICR, PHYS, and STAT; or any courses that carry an (A) or (N) general education designation.

c. The required six hours of upper-division General Education may not include courses from the student's major department. This requirement may be satisfied by courses also used to satisfy any part of a student's degree program (i.e., in General Education, College Departmental Requirements, Major Requirements or Electives).

d. Non-Western Studies Requirement for B.A. and B.F.A. – consult academic advisor

e. The College of Arts & Sciences requires a minimum 2.0 GPA in all major requirements and a minimum 2.0 GPA in all major-prefix courses.

#### **3. FOREIGN LANGUAGE PROFICIENCY**

b. The foreign language requirement for the B.S., B.M. and B.F.A. may be satisfied by presenting a high school transcript which demonstrates two years of study of a single foreign language (passing grades at second year level of study). It may also be satisfied by 6 hours college credit in the same language, which must include language courses 1713 and 1813, or equivalent proficiency (e.g., passing an advanced standing examination; TOEFL exam; presenting a high school transcript which demonstrates the high school was primarily conducted in a language other than English; etc.). Computer Science courses may not be used to satisfy this requirement.

c. In addition to a. and b., **students pursuing teacher certification** must meet novice-high foreign language proficiency by presenting a high school transcript which demonstrates two years of study of a single foreign language with no grade below B. Or, students may complete 3 hours college credit in a single language with no grade below C (or pass an advanced standing examination, College Level Examination Program (CLEP) exam, or Oral Proficiency Interview developed by the American Council on the Teaching of Foreign Languages, equivalent to 3 hours of college credit.) Or, students may meet the requirement by transfer of documentation of meeting the foreign language competency from one of the teacher education programs in the State of Oklahoma approved by the Oklahoma State Regents for Higher Education.

#### **4. EXCLUSIONS**

a. Courses used to satisfy the General Education English Composition, U.S. History, American Government, and Mathematics or Statistics requirements will not count toward the 54 hour maximum allowed from one department.

b. Courses with ATHL or LEIS prefixes and leisure activity courses may not be used for degree credit.